OLI 27 1006 W

Case Docket No. KANEKO.014AUS

Date: October 24, 2006

Page 1

re application of: Minoru Umemoto et al.

App. No.

10/585,707

Filed

July 19, 2006

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July 19, 2000

For

PROCESS OF FORMING ULTRAFINE

CRYSTAL LAYER, MACHINE COMPONENT HAVING ULTRAFINE CRYSTAL LAYER FORMED BY THE

ULTRAFINE CRYSTAL LAYER FORMING PROCESS...

Examiner :

Unknown

Art Unit

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

October 24, 2006

Yasuo Muramatsu, Reg. No. 38,684

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

Sir:

Transmitted herewith is a document for the above-identified utility application.

() An extension of time to respond for * month(s) is hereby requested.

Time Extension Fee:

- () one month (\$120 large entity)
- () two months (\$450 large entity)
- () three months (\$1020 large entity)

Enclosed are:

- (X) a copy of International Preliminary Examination Report issued by Japanese Patent Office.
- (X) Return prepaid postcard.

Yasuo Muramatsu

Registration No. 38,684

Attorney of Record

114 Pacifica, Suite 310

Irvine, California 92618

(949) 753-1127

TRS-KN14.002 102406

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

KANEKO, Naohisa
Kaneko International Patent Office
Aioi Insurance Toyohashi Bldg., 7th Floor
92 Ote-cho, Toyohashi-City, Aichi 4400895
with thanks

RECEIVED
with thanks
2006, 9, 08
Kaneko&H

Date of mailing (day/month/year)
31 August 2006 (31.08.2006)

Applicant's or agent's file reference

20041309PCT
International application No.

PCT/JP2004/018650

.

IMPORTANT NOTIFICATION

International filing date (day/month/year)
14 December 2004 (14.12.2004)

Applicant

TOYOHASHI UNIVERSITY OF TECHNOLOGY et al

- . Transmittal of the translation to the applicant.
 - The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter 1).
 - The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).
- 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

Facsimile No. +41 22 338 82 70

Facsimile No. +41 22 338 82 70 Form PCT/IB/338 (January 2004)

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 20041309PCT	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2004/018650	International filing date (day/month/year) 14 December 2004 (14.12.2004)	Priority date (day/month/year) 21 January 2004 (21.01.2004)	
International Patent Classification (8th See relevant information in Form F	edition unless older edition indicated) PCT/ISA/237		
Applicant TOYOHASHI UNIVERSITY OF TE	CHNOLOGY		

1.	This international preliminary re International Searching Authori	eport on patentability (Chapte ty under Rule 44 bis.1(a).	r I) is issued by the International Bureau on behalf of the				
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.						
	In the attached sheets, any refere to the international preliminary	ence to the written opinion of report on patentability (Chapt	the International Searching Authority should be read as a reference er I) instead.				
3.	This report contains indications	relating to the following item	s:				
	Box No. I	Basis of the report					
	Вох №. П	Priority					
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	. Box No. IV	Lack of unity of invention					
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the international application					
	Box No. VIII	Certain observations on the international application					
4.	The International Bureau will conot, except where the applicant that (Rule 44bis .2).	ommunicate this report to desi makes an express request und	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority				
-			Date of issuance of this report 22 August 2006 (22.08.2006)				
	The International Bure 34, chemin des Col- 1211 Geneva 20, Sw	ombettes	Authorized officer Masashi Honda				
Facsin	Facsimile No. +41 22 338 82 70		e-mail: pt08@wipo.int				

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below 20041309PCT Priority date (day/month/year) International application No. International filing date (day/month/year) 21.01.2004 PCT/JP2004/018650 14.12.2004 International Patent Classification (IPC) or both national classification and IPC Applicant TOYOHASHI UNIVERSITY OF TECHNOLOGY This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Certain documents cited Box No. VI Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP Telephone No. Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018650

With regard to the Imaginage, this opinion has been established on the basis of the international application in the Imaginage in which it was filled, unless otherwise indicated under this time. This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of a. type of material	Box	No. I	Basis of this opinion
which is the language of a translation furnished for the purposes of infernational search (under Rule 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing. table(s) related to the sequence listing. in computer readable form c. time of filting/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed, as appropriate, were furnished. 4. Additional comments:	1.	With filed.	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
Rule: 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing. table(s) related to the sequence listing b. format of material in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed ones not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:			
invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		-	
a sequence listing table(s) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:	2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
table(s) related to the sequence listing b. format of material		a.	type of material
b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. Additional comments:			a sequence listing
in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:			table(s) related to the sequence listing
in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		b.	format of material
c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or tablets) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:			in written format
contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:			in computer readable form
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 In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. Additional comments: 			filed together with the international application in computer readable form.
furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:			furnished subsequently to this Authority for the purposes of search.
	3.		furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as
	4.	Addit	ional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018650

Box No. V	Reasoned stateme	nt under Ru anations sup	le 43bis.1(a porting suc)(i) with regar th statement	d to novelty, inve	ntive step or in	dustrial appli	icability;
I. Statement	* -	,						
Novelt		Claims	1-15					\
		Claims						
Inventi	ive step (IS)	Claims	1-15					ΓΥ
	-	Claims						
Industr	rial applicability (IA)	CI.	1-15					
, naoyi	······································	Claims						
. Citations a	and explanations:							
local la describ the art.	The inventions arge strain wher ed in any of the	n machin	e proces	sing using	machining	tools is per	formed, v	which is no
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